



SPYWOLF

Security Audit Report



Completed on
June 13, 2022

MADE IN USA 

 @SPYWOLFNETWORK

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 SPYWOLF.CO



OVERVIEW

This audit has been prepared for **Bean Factory** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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BEAN FACTORY



PROJECT DESCRIPTION

According to their whitepaper:

Bean Factory is a passive income ecosystem built on Binance Smart Chain (BSC). Holders of \$BEAN will benefit from the following in future:

- Portfolio Tracker
- Rug Checker with custom Multi-chart
- Watchlist
- Bean Swap
- Crypto with Fiat (Integration with Ramp)
- Cross Chain (Integration with SWFT)
- NFTs and NFT Marketplace

Release Date: July 13, 2022

Category: Reward token

01



CONTRACT INFO

Token Name
BeanFactory

Symbol
BEAN

Contract Address

0x8551530Fd97ef1ea8640e5ea941E4db9CfD12227

Network

Binance Smart Chain

Language

Solidity

Deployment Date

July 02, 2022

Verified?

Yes

Total Supply

5,000,000,000

Status

Not launched

TAXES

Buy Tax
16%

Sell Tax
16%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of June 13, 2022)



Liquidity

Not added yet



Burn

No burnt tokens

Status:
Not Launched

MaxSellTxAmount
50,000,000

No Additional Info

LP Address(es)

Liquidity not added yet



TOKEN TRANSFERS STATS

Transfer Count	4
Uniq Senders	2
Uniq Receivers	3
Total Amount	9719000000 BEAN
Median Transfer Amount	2969000000 BEAN
Average Transfer Amount	2429750000 BEAN
First transfer date	2022-06-02
Last transfer date	2022-06-12
Days token transferred	2

SMART CONTRACT STATS

Calls Count	15
External calls	5
Internal calls	10
Transactions count	8
Uniq Callers	3
Days contract called	1
Last transaction time	2022-06-12 10:38:59 UTC
Created	2022-06-12 09:50:56 UTC
Create TX	0xedad87da1a09138f124cd7108ab28ad02ff2585b9d086f6bb9b2d45ea670842a
Creator	0xc383d8e6e0f36bc4463569a6c71f850cbcde1694

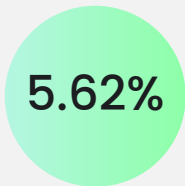


FEATURED WALLETS

Owner address	0xc383d8e6e0f36bc4463569a6c71f850cbcde1694
Marketing wallet	0xefa8b43e594c635d9b6669e6241baae9aacc4327
LP address	Liquidity not added yet

TOP 3 UNLOCKED WALLETS

1



Same as owner



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ High Risk

Owner can change buy/sell fees up to 100%.

```
function setFee(uint256 _bnbRewardFee, uint256 _liquidityFee, uint256 _marketingFee) public onlyOwner {
    BNBRewardsFee = _bnbRewardFee;
    liquidityFee = _liquidityFee;
    marketingFee = _marketingFee;
    totalFees = BNBRewardsFee.add(liquidityFee).add(marketingFee); // total fee transfer and buy
}
function setExtraFeeOnSell(uint256 _extraFeeOnSell) public onlyOwner {
    extraFeeOnSell = _extraFeeOnSell; // extra fee on sell
}
```

Owner can change max sell transaction limit, making it impossible to sell if set to 0.

```
function setMaxSelltx(uint256 _maxSellTxAmount) public onlyOwner {
    maxSellTransactionAmount = _maxSellTxAmount * (10 ** 18);
}
```

- Recommendation:
 - Good fees practice is buy+sell not to exceed 25% combined.
 - Good max transaction practice is to set minium limit for each transaction for at least 0.1% of total supply.



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

BeanFactory

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The smart contract utilizes "SafeMath" to prevent overflows

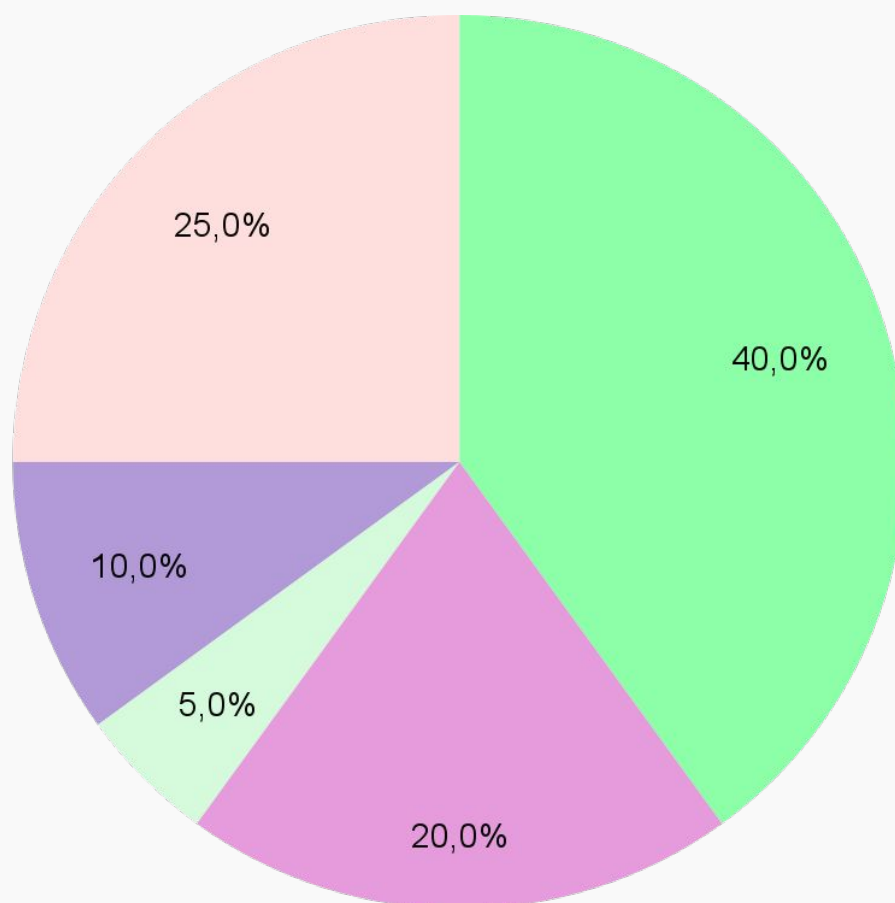


*The following tokenomics are based on the project's whitepaper and/or website:

- 40% - Presale
- 25% - Burn
- 20% - Liquidity
- 10% - Private sale
- 5% - Team vesting

Token Distribution

- Presale
- Liquidity
- Team vesting
- Private sale
- Burn



TOKENOMICS



THE TEAM

The team at **BeanFactory** has privately doxxed to SPYWOLF by completing the following KYC requirements:

- ID Verification
- Video statement
- Video interview with devs
- Owner's wallet verification

KYC INFORMATION

Issuer

SPYWOLF

Members



KYC Date

June 12, 2022

Format

Image

Certificate Link

https://github.com/SpyWolfNetwork/KYCs/blob/main/june/KYC_BEANFACTORY_0x8551530Fd97ef1ea8640e5ea941E4db9CfD12227.png



**Website URL**

<https://beanfactory.io/>

Domain Registry

<http://www.realtimeregister.com>

Domain Expiration

Expires on 2023-06-01

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design,
appropriate color scheme
and overall layout.

Content

The information helps new
investors understand what
the product does right away.
No grammar errors found.

Whitepaper

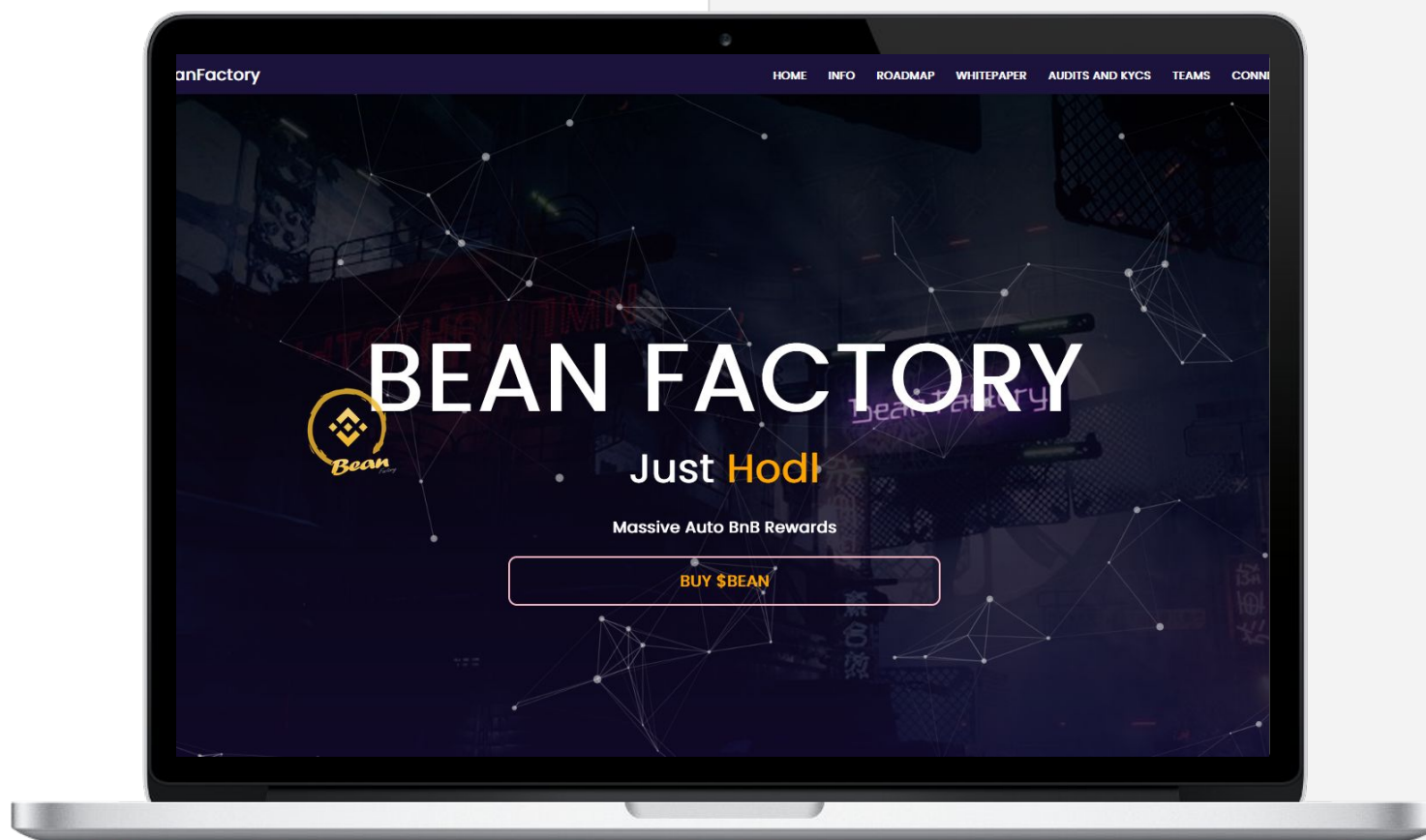
Well written explanatory.

Roadmap

Yes, goals set at 5 phases
without timeframes.

Mobile-friendly?

Yes



beanfactory.io



SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

The social media presence is still growing but overall OK. Active team members and engaging audience.



Twitter

<https://twitter.com/BeanFactoryCoin>

- 478 followers
- Active
- New account, 3 posts in total



Discord

- Not available



Telegram

<https://t.me/beanfactory>

- 948 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 150 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.